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to the Society for other astronomical work. Next to Mr. Stahl the principal credit for this undertaking is due to Dr. Aitken, Chairman of the Publication Committee, whose arduous and unselfish labor in editing the work is entitled to grateful recognition. The work is already receiving wide attention from scientists and learned institutions in all parts of the world.

Among other activities of the Society may be mentioned its participation in the work of the Pacific Division of the American Association for the Advancement of Science, which held a meeting at Pasadena, in June, at which a number of valuable papers were presented by members of the Astronomical Society of the Pacific.

At the special meeting of the Board of Directors, held on November 29th, to consider the award of the Bruce Gold Medal for 1920, the unanimous choice fell upon Professor E. W. Brown, of Yale University, and that distinguished scholar has signified his acceptance of the honor. This makes the fifteenth presentation of the Bruce Medal, its holders now constituting an enviable roll of honor. An invitation has been extended to Professor Brown to come to San Francisco in March next to receive the medal in person, and hopes are entertained that he will be enabled to address the Society on that occasion.

In this connection, it is proper to state that, at the meeting of the Board of Directors, held on March 29th last, the statutes which govern the bestowal of the Bruce Medal were amended by the substitution of the National Observatory at Cordoba, Argentine Republic, for the Observatory of Berlin, as one of the six nominating institutions for the bestowal of this medal.

The library of the Society, which is now housed in the Sutro Branch of the California State Library, at the corner of Sacramento and Webster streets, San Francisco, is slowly growing in volume and usefulness. There are now 6567 items in the library; 635 bound and 5932 pamphlets and other unbound material. During the year 1919 665 items were added, of which 14 were bound and 651 were pamphlets and other unbound material. Thanks to the interest and constant care of the Branch Librarian, Mrs. Laura Steffens Suggett, this material is now carefully indexed and shelved and every facility is offered to those who desire to consult it.

Owing to building operations started during the year in the Lick Building, on Montgomery street, which was the former home of the Society, it became necessary to find new quarters, and the office of the Society is now located in Room 709 of the Postal Telegraph Building, at 22 Battery street, San Francisco.

#### REPORT OF THE TREASURER FOR THE FISCAL YEAR ENDING

JANUARY 31, 1920

#### GENERAL STATEMENT

##### Assets:

Thirty-one bonds (par value \$20,450)—cost.....	\$20,404.69
Cash in Alvord Fund—Savings Union Bank.....	218.99
Cash in Library Fund—Security Savings Bank.....	100.84
Cash in Life Membership Fund—Security Savings Bank.....	281.96
Cash in Dolbeer Fund—Union Trust Co.'s Bank.....	109.89
Cash in Bruce Medal Fund—First Federal Trust Co.....	196.24
Cash in Comet Medal Fund—Savings Union Bank.....	111.46
Cash in General Fund—Donohoe Kelly Bank Co.....	1262.12
<b>Total.....</b>	<b>\$22,686.19</b>

*Note.*—The value of library, office furniture and unsold Stahl books on hand is not considered in this statement.

##### Liabilities, none.

#### STATEMENTS BY FUNDS

##### William Alvord Fund

Dr. To cash balance January 25, 1919.....	\$210.51
Interest received.....	301.99
<b>Total.....</b>	<b>\$512.50</b>
Cr. By transfers to General Fund.....	293.51
<b>Balance January 31, 1920.....</b>	<b>\$218.99</b>

Holds 6½ bonds—Par..... \$4700.00  
Cost..... 4570.25

## PUBLICATIONS OF THE

*Montgomery Library Fund*

<i>Dr.</i> To cash balance January 25, 1919.	.....	\$195.96
Interests received.	.....	169.88
Total.	.....	<u>\$365.84</u>
<i>Cr.</i> By transfers to General Fund.	.....	265.00
Balance January 31, 1920.	.....	<u>\$100.84</u>
Holds 3½ bonds—Par.	.....	\$3500.00
Cost.	.....	3573.75

*Life Membership Fund*

<i>Dr.</i> To cash balance January 25, 1919.	.....	\$222.41
Interests received.	.....	193.60
Total.	.....	<u>\$416.01</u>
<i>Cr.</i> By transfers to General Fund.	.....	134.05
Balance January 31, 1920.	.....	<u>\$281.96</u>
Holds 5 bonds—Par.	.....	\$3050.00
Cost.	.....	3046.25

*John Dolbeer Fund*

<i>Dr.</i> To cash balance January 25, 1919.	.....	\$301.51
Interests received.	.....	206.89
Total.	.....	<u>\$508.40</u>
<i>Cr.</i> By transfers to General Fund.	.....	198.51
Liberty bonds purchased.	.....	200.00
Balance January 31, 1920.	.....	<u>\$109.89</u>
Holds 8½ bonds—Par.	.....	\$4900.00
Cost.	.....	4927.22

*The Bruce Medal Fund*

<i>Dr.</i> To cash balance January 25, 1919.	.....	\$436.42
Interests received.	.....	159.82
Total.	.....	<u>\$596.24</u>
<i>Cr.</i> By purchase liberty bonds.	.....	300.00
Medal for 1920.	.....	100.00
Balance January 31, 1920.	.....	<u>\$196.24</u>
Holds 6½ bonds—Par.	.....	\$3300.00
Cost.	.....	3287.22

*The Donohoe Comet Medal Fund*

<i>Dr.</i> To cash balance January 25, 1919.	.....	\$ 73.16
Interests received.	.....	38.30
Balance January 31, 1920.	.....	<u>\$111.46</u>
Holds 1 bond—Par.	.....	\$1000.00
Cost.	.....	1000.00

## GENERAL FUND—TRANSACTIONS

<i>Dr.</i> To balance January 25, 1919.	.....	\$ 693.34
Alvord Fund.	.....	293.51
Life Membership Fund.	.....	234.05
Dolbeer Fund.	.....	223.51
Bruce Medal Fund.	.....	271.25
Library Fund.	.....	265.00
Comet Medal Fund.	.....	35.00
Stahl Lecture Fund.	.....	155.32
Stahl Book Publishing Fund.	.....	6.21
Sale of Publications.	.....	51.58
Insurance Refunded.	.....	2.00
Refunded on Reprints.	.....	110.25
Dues received.	.....	1127.00
Sales "Stahl Lectures in Astronomy".	.....	675.46
Total.	.....	<u>\$4143.48</u>

<i>Cr.</i> By Sunset Publishing Co.	.....	\$1263.57
Knight-Counihan Printing Co.	.....	125.05
Salaries.	.....	325.00
Rents.	.....	127.50
Postage.	.....	108.32
Mercantile Trust Co.—care of bonds.	.....	36.81
Taxes.	.....	19.16
Lecture November 29, 1919.	.....	25.00
Dues Pac. Div. A. A. S.	.....	10.00
Safe Deposit Box.	.....	5.00

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Insurance.....	9.03
Lantern March 20, 1919.....	10.00
Life Membership Fund.....	150.00
Bruce Medal Fund.....	246.25
Comet Medal Fund.....	35.00
Stahl Lecture Fund.....	151.45
Stahl Book Publishing Fund.....	81.23
R. G. Aitken, services.....	100.00
Security Savings Bank interest.....	2.95
Books purchased for library.....	7.05
Engraving Comet Medal.....	1.25
Expressage on books.....	2.42
Moving office.....	0.50
Shelving and lettering on door.....	5.48
University Press corrections.....	4.92
Pac. Coast Paper Co.....	2.88
Wesley & Son, commissions.....	5.50
Incidentals.....	10.44
	<u>\$2881.36</u>

Balance January 31, 1920..... \$1262.12

BONDS HELD BY THE ASTRONOMICAL SOCIETY OF THE PACIFIC

	<i>Par</i>
Blue Lakes.....	\$ 2000
L. A. Gas & Electric.....	3000
Moulton.....	1000
East Bay Water.....	3000
So. Pac. Coast.....	2000
Oakland Transit.....	2000
Bay Cos. Power.....	2000
Edison Electric.....	2000
First Liberty.....	1000
Second Liberty.....	1000
Third Liberty.....	400
Fourth Liberty.....	550
Fifth Liberty.....	500
	<u>31</u>
	\$20,450

Jan. 30, '20. Examined and found correct.

CHARLES S. CUSHING  
J. D. GALLOWAY.

*Stahl Book Publishing Fund*

STAHL BOOK PUBLISHING FUND

Dr. Oct. 7, 1918, Cash received from Mr. Stahl.....	\$1345.00
Dec. 2, 1919, Bank interest.....	6.90
July 8, 1919, Bank interest.....	18.03
Aug. 26, 1919, A. O. Leuschner, reprints.....	20.21

Total receipts..... \$1390.14

Cr. Oct. 21, 1918, Stanford University Press.....	\$ 50.20
Nov. 25, 1918, Aitken, postage.....	10.00
Dec. 12, 1918, Aitken expense acct.....	9.60
Jan. 3, 1919, Sierra Art & Eng. Co.....	11.42
Jan. 9, 1919, Barnes-Crosby Co.....	6.34
Jan. 27, 1919, Photo-Engraving Co.....	26.70
Jan. 30, 1919, Photo-Engraving Co.....	10.93
Feb. 4, 1919, Aitken, postage.....	10.00
Feb. 7, 1919, Photo-Engraving Co.....	6.97
Feb. 25, 1919, Stanford University Press.....	200.80
Feb. 27, 1919, Yale University Press.....	12.56
Mar. 18, 1919, Sierra Art & Eng. Co.....	91.50
Mar. 20, 1919, Photo-Engraving Co.....	8.00
April 3, 1919, Knight-Counihan Printing Co.....	7.75
May 19, 1919, Carlisle & Co.....	13.60
July 9, 1919, Stanford University Press.....	895.05
July 17, 1919, Gibon's Express.....	6.21
Aug. 26, 1919, Postage.....	5.30

Balance on hand..... \$7.21

## PUBLICATIONS OF THE

BOOK STATEMENT JANUARY 31, 1920  
*"The Adolfo Stahl Lectures in Astronomy"*

Books received from University Press.....	1000
Furnished to Lecturers.....	50 copies
" Mr. Stahl.....	36 "
" Reviewers.....	20 "
" Costa.....	2 "
" Aitken.....	1 "
" Richardson.....	1 "
" A. S. P. Library.....	1 "
Sold.....	308 "
On sale with Robertson.....	10 "
" Paul Elder.....	13 "
" Mt. Wilson.....	24 "
" Lick Observatory.....	18 "
" Students Co-op.....	20 "
For promotion purposes.....	6 "
On hand.....	490 "
	1000

The following is the report of the Comet Medal Committee:

## REPORT OF THE COMET MEDAL COMMITTEE

MOUNT HAMILTON, CALIFORNIA.

January 10, 1920.

Five comets were discovered during the year 1919. One of these was an unexpected comet and the others were periodic comets whose returns had been predicted.

1919a—Kopff's periodic comet, observed by Wolf at Heidelberg on July 30, 1919.

1919b—Brorsen's periodic comet, discovered at Camp Idlewild, Vermont, on August 20, 1919, by Rev. Joel H. Metcalf. It was announced as an unexpected comet, but from the first elements, computed by Mr. Jeffers and Miss Heger, it was recognized by Leuschner to be identical with Brorsen's comet of 1847.

1919c—An unexpected comet discovered at Camp Idlewild, Vermont, on August 22, 1919, by Metcalf. It was discovered independently at Marseilles, France, on August 23, 1919, by Borrelly.

1919d—Finlay's periodic comet, observed at Kyoto Observatory on October 25, 1919, by Sasaki.

1919e—Schaumasse's periodic comet, observed at Nice, France, on October 29, 1919.

Fuller information concerning the discovery of these comets has been published under the title "Comet Notes" in the October and December numbers of these PUBLICATIONS.

In accordance with the statutes the Donohoe comet medal has been awarded to Mr. Metcalf for the discovery of comet 1919c.

Respectfully submitted,

W. W. CAMPBELL,

J. H. MOORE,

S. EINARSSON,

Committee on the Comet Medal.

## NINETY-FOURTH AWARD OF THE DONOHOE COMET MEDAL

The comet medal of the Astronomical Society of the Pacific has been awarded to Rev. Joel H. Metcalf, of Winchester, Massachusetts, for the discovery of an unexpected comet on August 22, 1919.

The Committee appointed at the November meeting to make nominations for officers for the Society for the coming year presented the following report:

BERKELEY, CAL., Jan. 20, 1920.

TO THE ASTRONOMICAL SOCIETY OF THE PACIFIC:

Your Nominating Committee for this year submits the following list of nominees for the offices indicated:

## FOR DIRECTORS

I. BENFIELD	6. CUSHING
2. CAMPBELL	7. EINARSSON
3. CEBRIAN	8. HALE
4. COSTA	9. AITKEN
5. CROCKER	10. MOORE

## II. RICHARDSON

## FOR PUBLICATION COMMITTEE

I. AITKEN	2. SHAPLEY	3. MOORE
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## FOR THE NOMINATING COMMITTEE

R. T. CRAWFORD, Chairman.

Director Cebrian announced that he would be absent in Europe during the coming year and suggested in the interest of the Society, that his name be dropped from the list of nominees in favor of some other member who would be present to serve. On motion of Director Benfield, duly seconded and carried,

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the name of Mr. A. L. Black was substituted for that of Director Cebrian on the list of nominations for Directors.

The Society then proceeded to elect the following as members of the Board of Directors and members of the Publication Committee for the ensuing year:

### FOR BOARD OF DIRECTORS

W. W. CAMPBELL	GEO. E. HALE
J. COSTA	J. H. MOORE
WM. H. CROCKER	R. G.AITKEN
C. S. CUSHING	L. A. BLACK
BERNARD BENFIELD	D. S. RICHARDSON
STURLA EINARSSON	

### FOR PUBLICATION COMMITTEE

R. G. AITKEN HARLOW SHAPLEY J. H. MOORE

On motion of Director Costa, seconded by Director Benfield, it was decided that it is the sense of the Society that provision should be made to pay one-half of such expenses as may be incurred by Professor Brown, of Yale University, in coming to California to receive the Bruce Medal—provided that gentleman decides that he can come. It is understood that payment in question is to be made from any available funds resulting from the sale of the Adolfo Stahl Lectures in Astronomy. Assurances have been given that the other half of such expense fund will be provided from other sources to be announced later. The matter was referred to the Finance Committee.

Under the head of good of the order there was considerable discussion as to ways and means for providing a permanent fund from which to maintain a course of lectures on astronomy. Director Benfield was of the opinion that such a fund might be obtained and, on his suggestion, a committee consisting of Messrs. Benfield, Black, Costa and Cebrian was appointed by the Chair to investigate the matter and report at the next regular meeting.

The meeting then adjourned.

### MEETING OF THE NEWLY ELECTED BOARD OF DIRECTORS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, HELD IN THE ROOMS OF THE SOCIETY, IN SAN FRANCISCO, ON JANUARY 31, 1920 AT 9.00 P. M.

The meeting was called to order by Director Aitken and the Board at once proceeded to organize by electing the following officers for the year 1920:

For President.....	J. H. MOORE
For First Vice-President.....	B. BENFIELD
For Second Vice-President.....	J. COSTA
For Third Vice-President.....	A. L. BLACK
Secretary-Treasurer.....	D. S. RICHARDSON
Adjourned.	D. S. RICHARDSON, <i>Secretary.</i>